

# IMPROVED DESIGN FOR PARTICLE SENSOR SYSTEM

## Abstract

A device is illustrated for detecting particles in a fluid that can detect smaller particles without the need for added power or space and can be implemented inexpensively. The device utilizes two mirrors and a photo-diode. The housing of the photo-electric diode is machined to form one of the mirrors. The mirrors have a special positioning so that the second mirror uses the first mirror to reflect light deflected by particles back to the photo-electric diode.